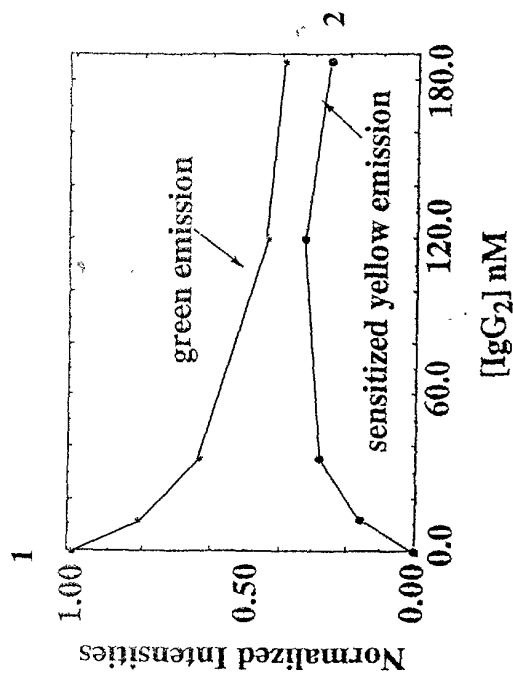


FIG. 1

# FRET-Based Assays on Beads

**Two color intensity measurement:**  
*Titration of rhodamine tagged IgG  
 to fluorescein tagged biomolecules*



**Phase sensitive detection of FRET:**  
*Reduced lifetime of biomolecule fluorescence  
 after binding to rhodamine-tagged IgG*

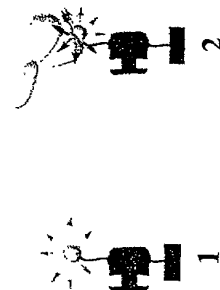
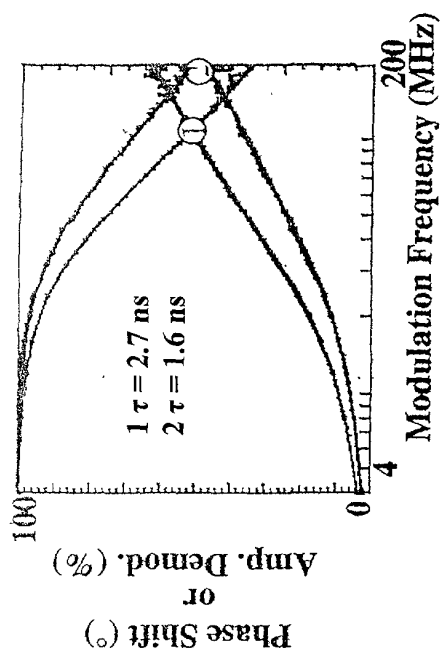
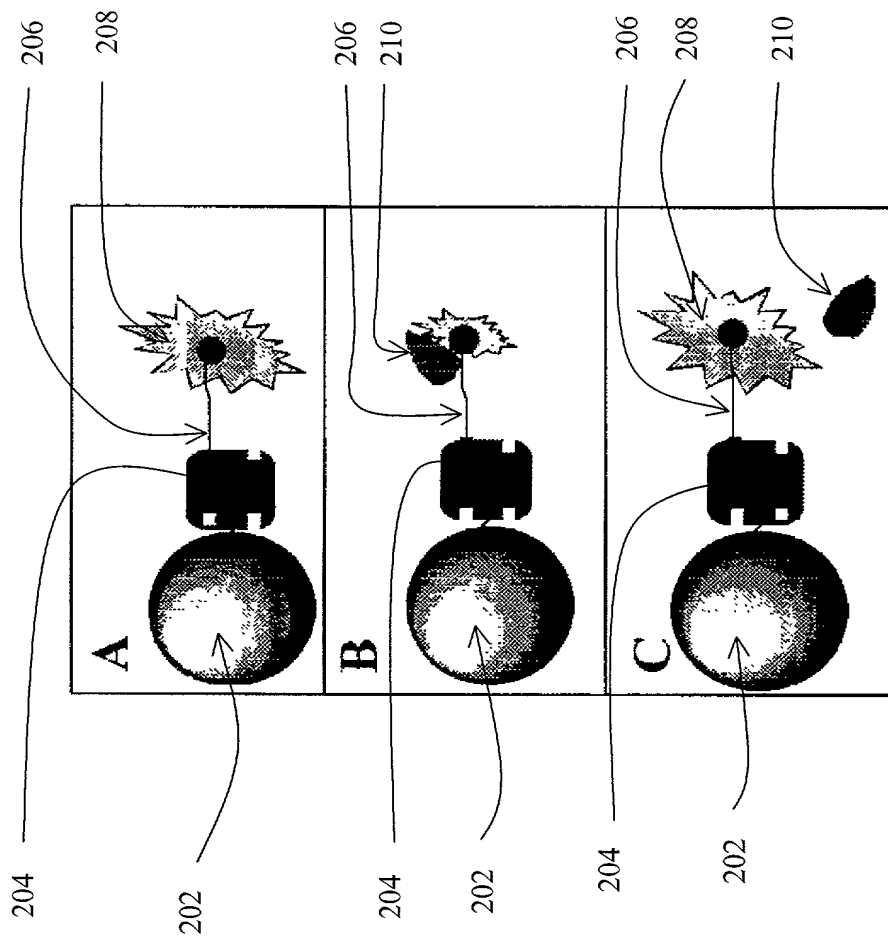


FIG. 2





**FIG. 4**  
**Bead Based Flow Cytometric Assays**

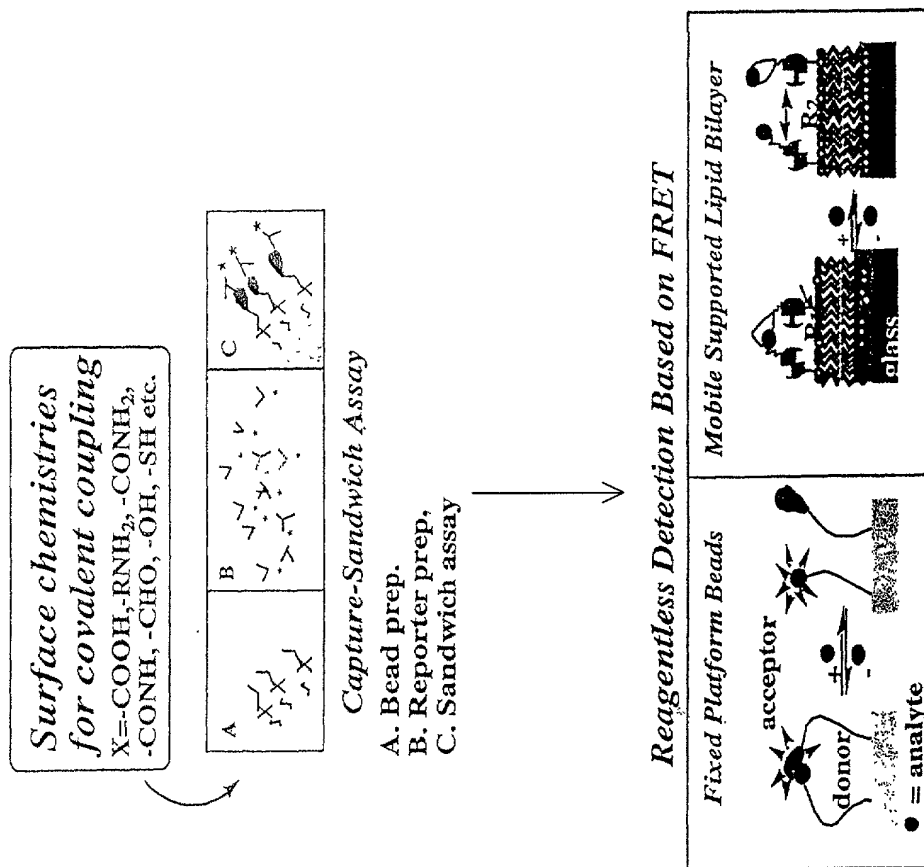


FIG. 5

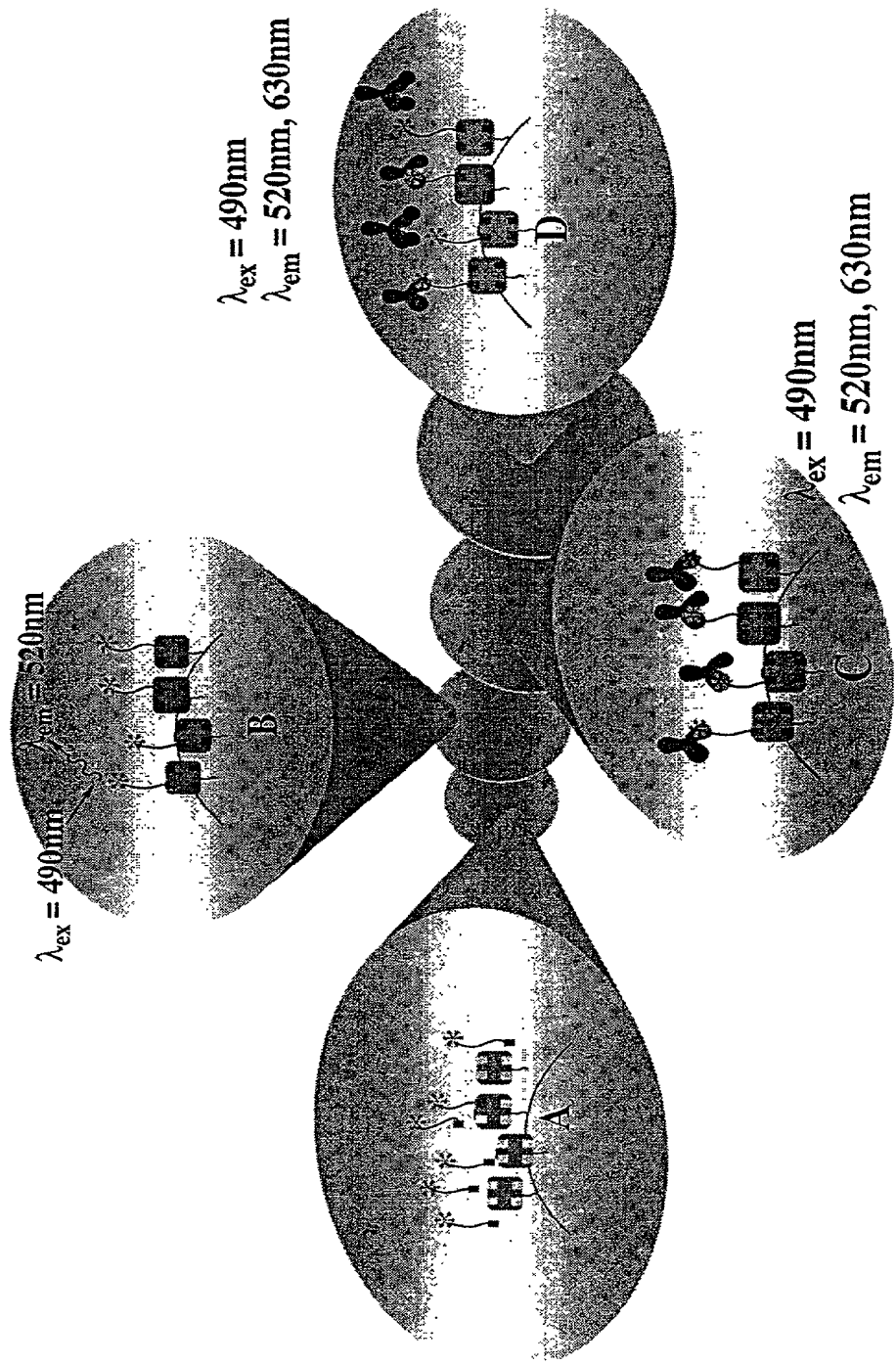


FIG. 6

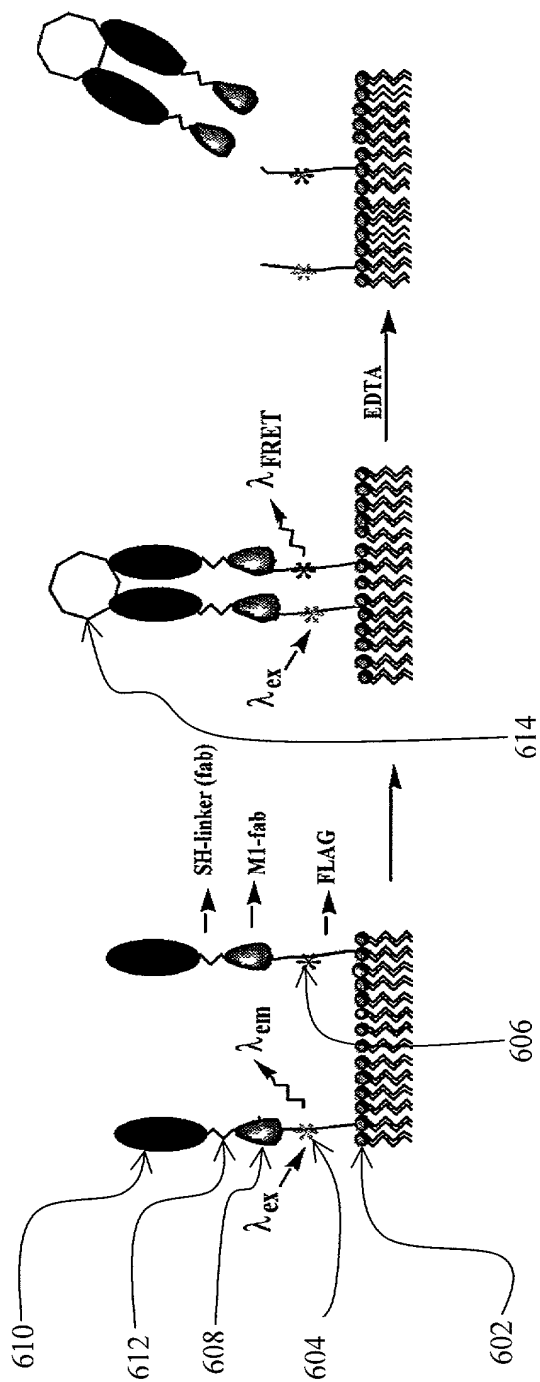
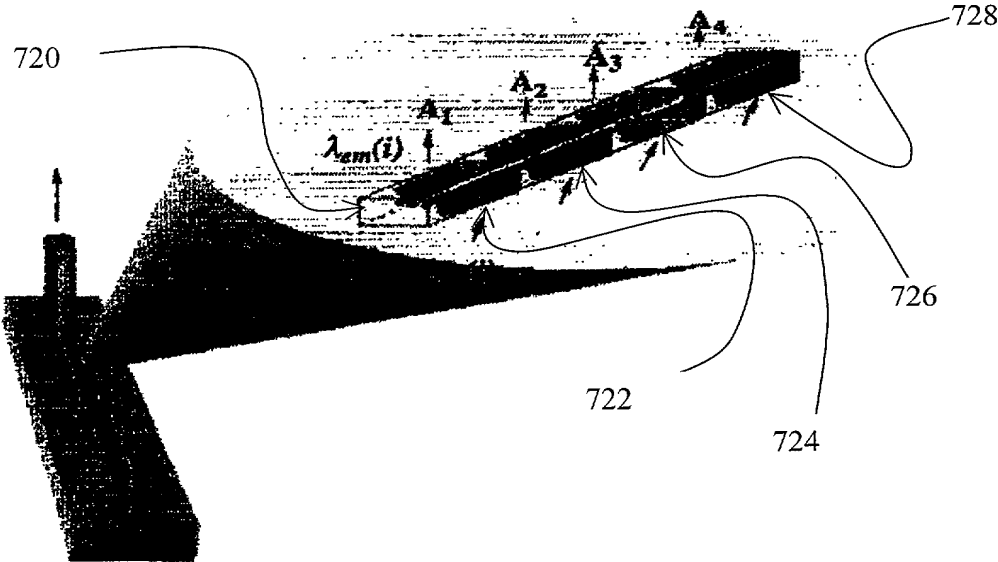




FIG. 7B

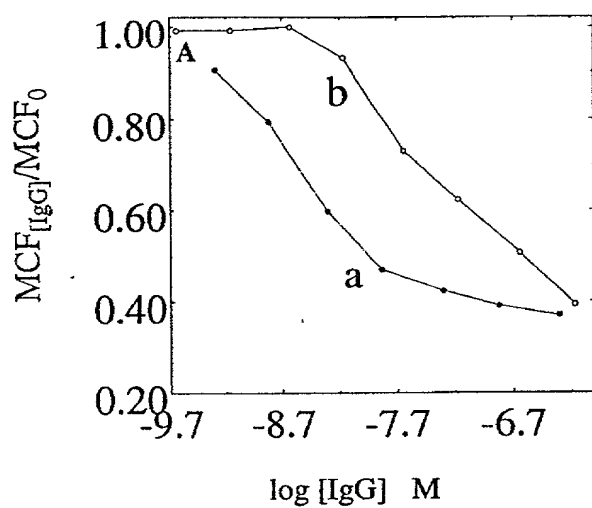


0995873.10604

FIG. 7B



**FIG. 8**



**FIG. 9**

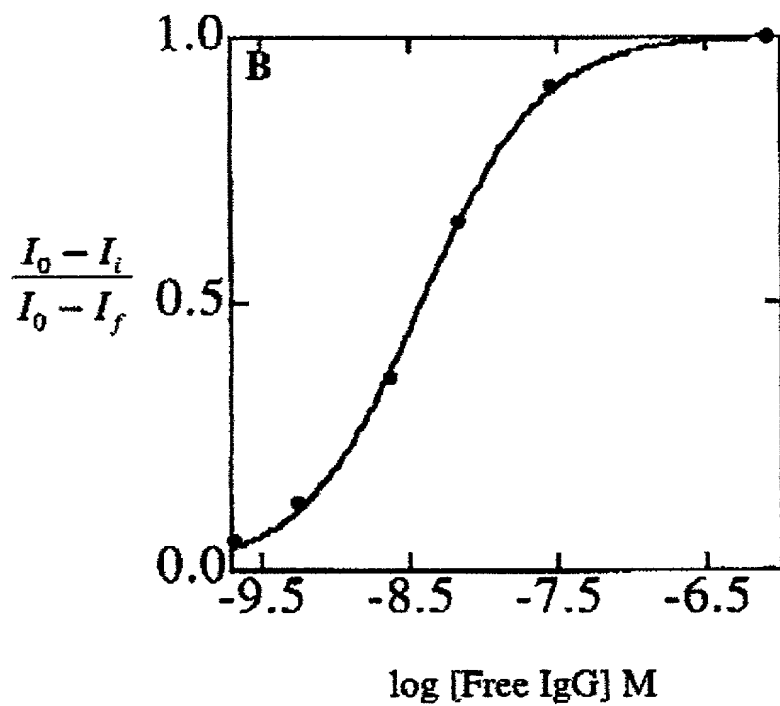


FIG. 10

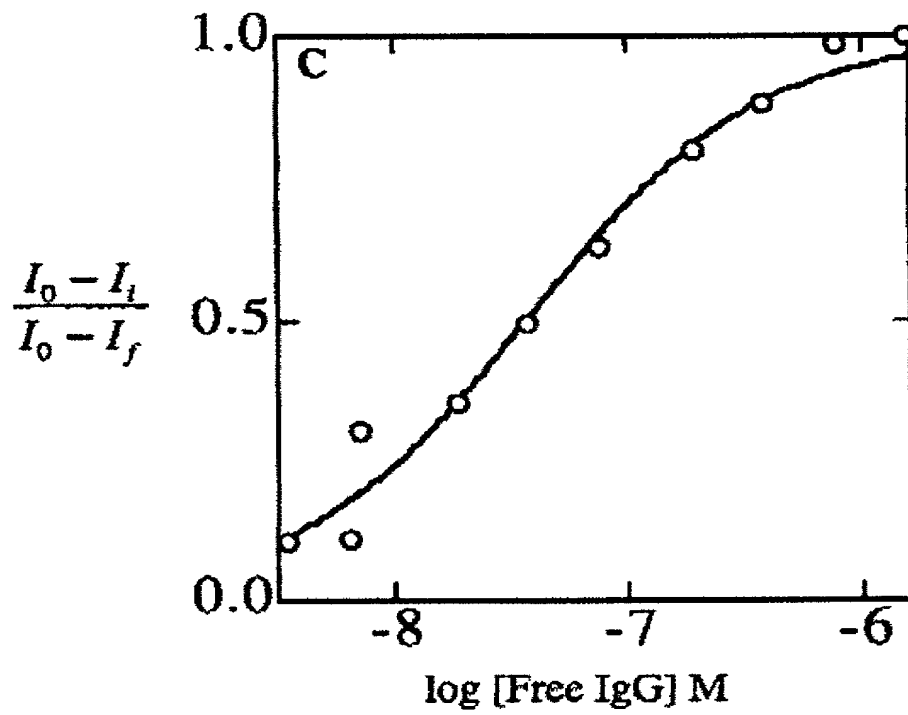
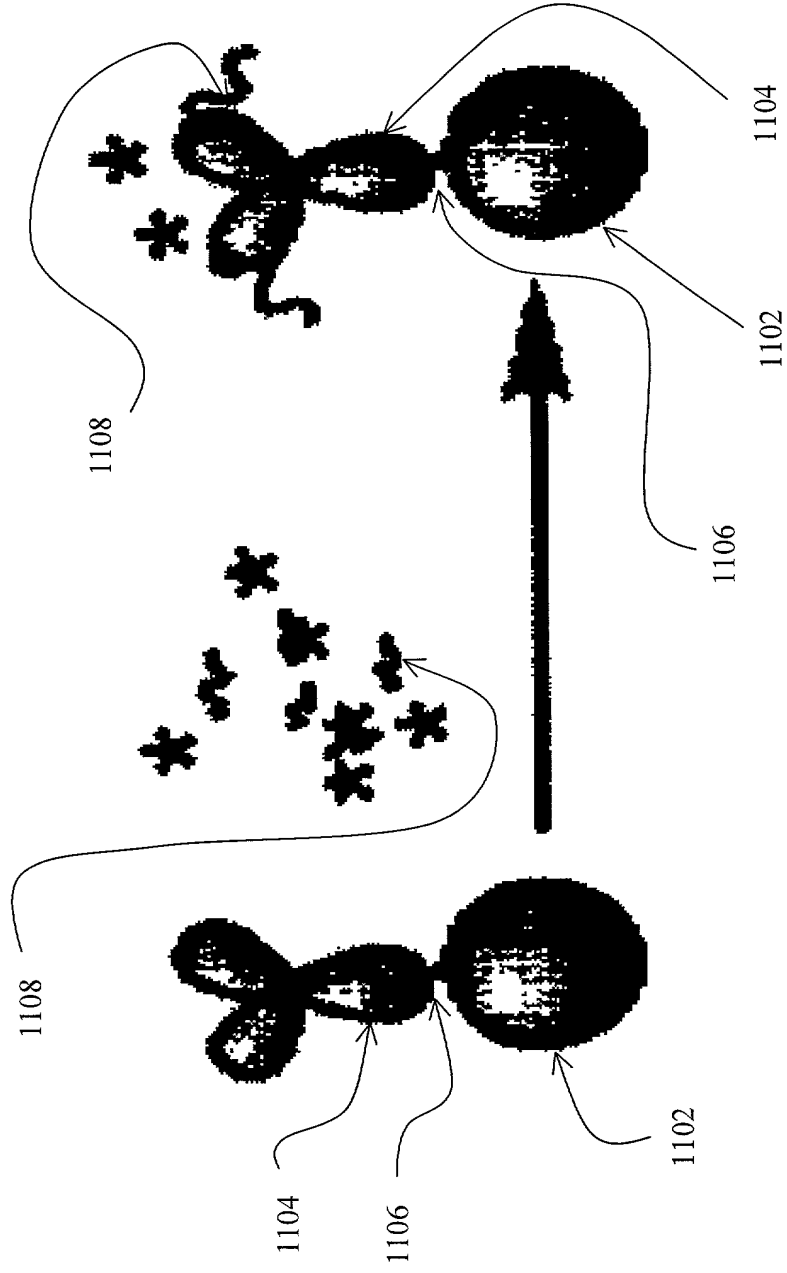
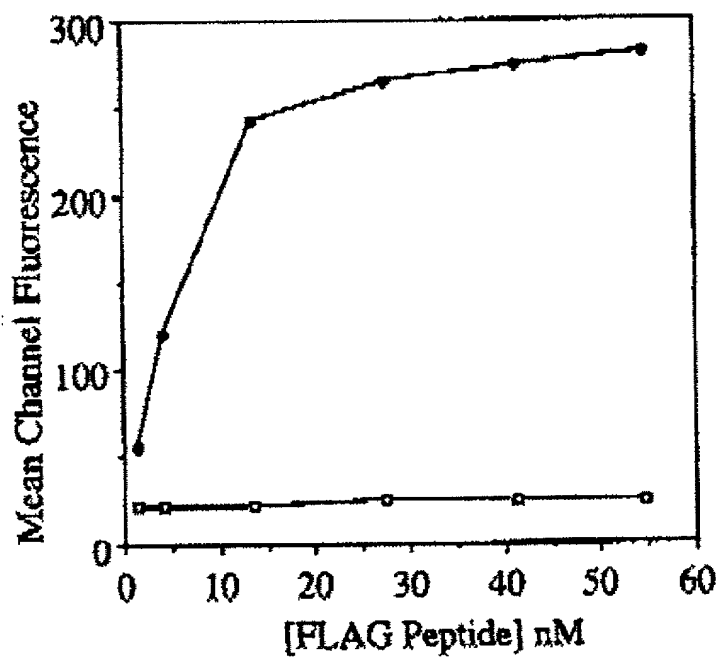
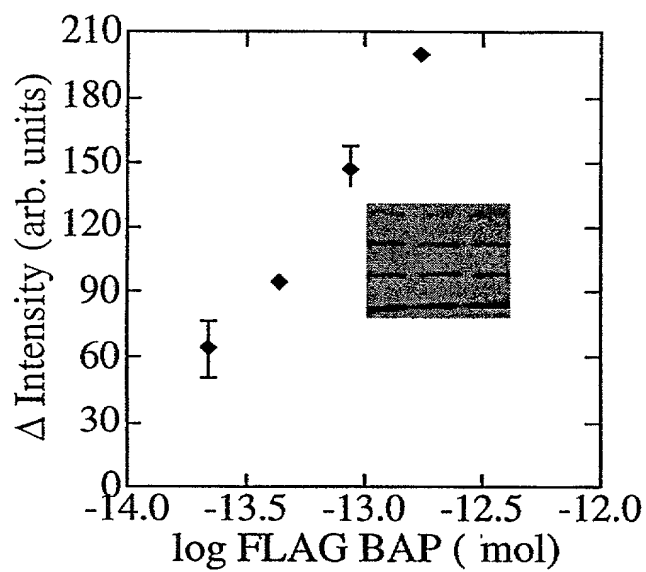


FIG. 11



**FIG. 12****FIG. 13**

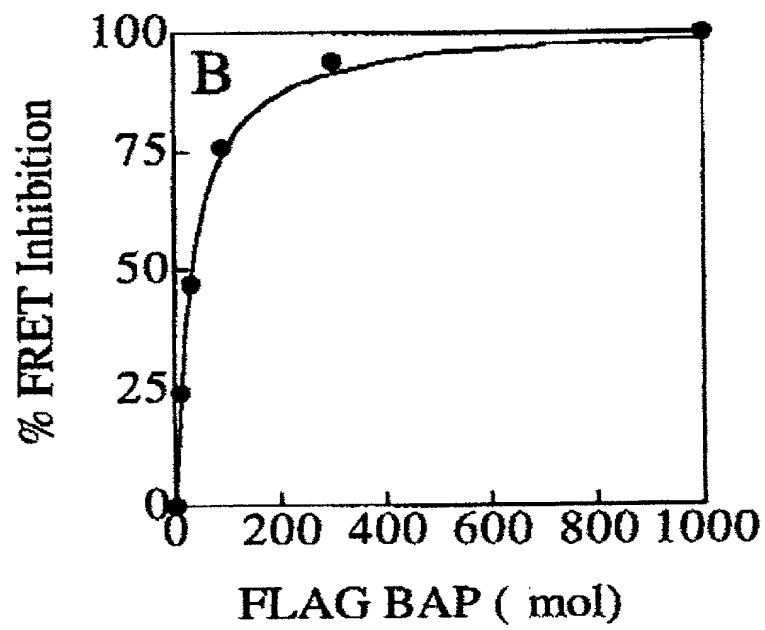
**FIG. 14**

FIG. 15

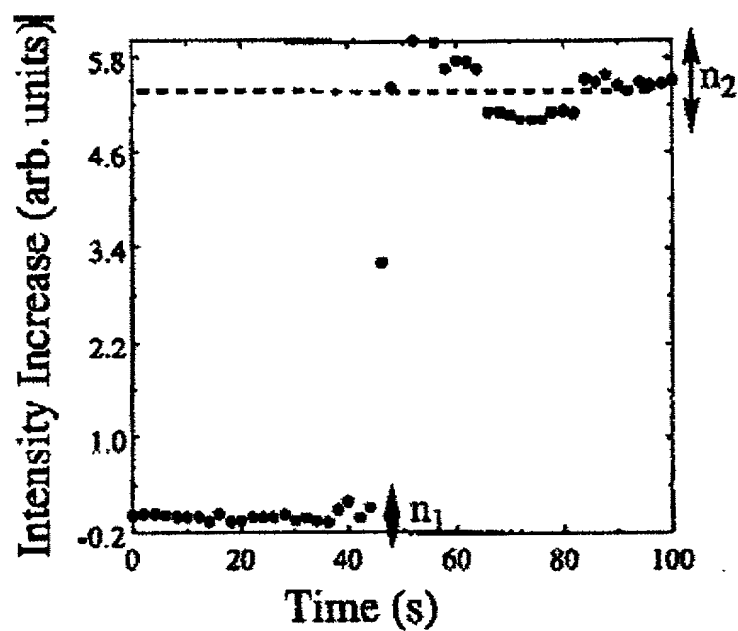


FIG. 16

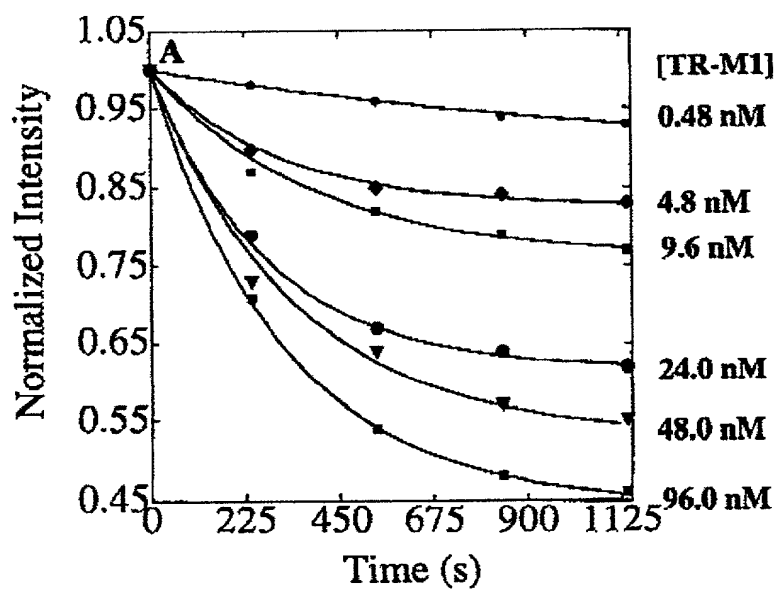


FIG. 17

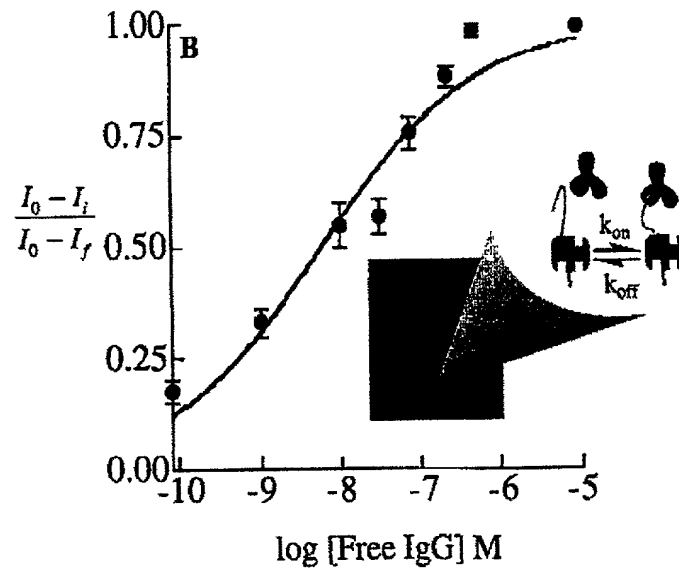
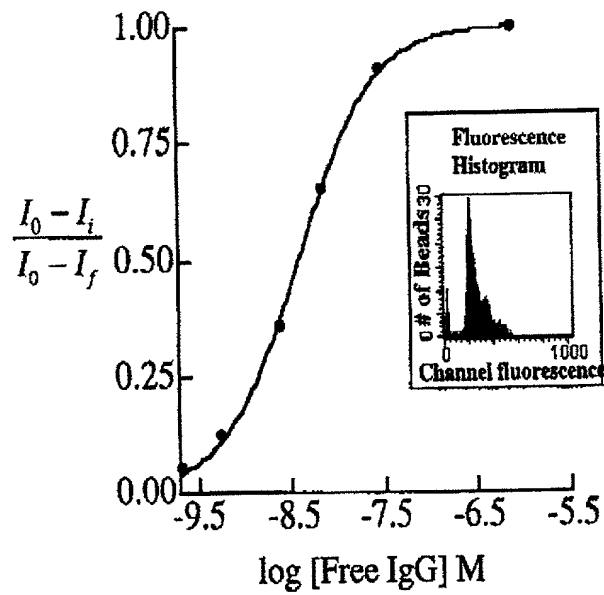


FIG. 18



**FIG. 19**

**Characterization of Binding Affinities  
Between Beads, Flourescein Biotin,  
FLAG Peptides, and Antibodies**

System	$K_d$ (nM)
f biotin/beads	0.5
FLAG peptides/bead	
5-FLAG	0.30
6-FLAG	1.90
TR-M1/5-FLAG (solution)	9.0
TR-M1/5-FLAG (beads + 1mM $\text{Ca}^{2+}$ )	4.0
TR-M1/5-FLAG (beads no $\text{Ca}^{2+}$ )	37.0
M2/5-FLAG (beads)	8.0